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Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**2** [Data clustering: a review](#)

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...



Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

3 [The O2 system](#)

O. Deux

October 1991 **Communications of the ACM**, Volume 34 Issue 10

Full text available: pdf(7.15 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: O2, Object-oriented database systems

4 Storing semistructured data with STORED

Alin Deutsch, Mary Fernandez, Dan Suciu

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available:  pdf(1.55 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Systems for managing and querying semistructured-data sources often store data in proprietary object repositories or in a tagged-text format. We describe a technique that can use relational database management systems to store and manage semistructured data. Our technique relies on a mapping between the semistructured data model and the relational data model, expressed in a query language called STORED. When a semistructured data instance is given, a STORED mapping can be generated automati ...

5 An analysis of BGP convergence properties

Timothy G. Griffin, Gordon Wilfong

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available:  pdf(1.35 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Border Gateway Protocol (BGP) is the *de facto* inter-domain routing protocol used to exchange reachability information between Autonomous Systems in the global Internet. BGP is a path-vector protocol that allows each Autonomous System to override distance-based metrics with policy-based metrics when choosing best routes. Varadhan *et al.* [18] have shown that it is possible for a group of Autonomous Systems to independently define BGP policies that together lead to BGP protocol os ...

6 An examination of high-performance computing export control policy in the 1990s

Seymour E. Goodman, Peter Wolcott, Grey Burkhardt

December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  html(43.86 KB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

7 InfoSleuth: agent-based semantic integration of information in open and dynamic environments

R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2


Full text available:  pdf(1.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

8 A cost-effective, high-bandwidth storage architecture

Garth A. Gibson, David F. Nagle, Khalil Amiri, Jeff Butler, Fay W. Chang, Howard Gobioff, Charles Hardin, Erik Riedel, David Rochberg, Jim Zelenka
 October 1998 **Proceedings of the eighth international conference on Architectural support for programming languages and operating systems**, Volume 32 , 33
 Issue 5 , 11

Full text available:  [pdf\(1.67 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Network-Attached Secure Disk (NASD) storage architecture, prototype implementations of NASD drives, array management for our architecture, and three filesystems built on our prototype. NASD provides scalable storage bandwidth without the cost of servers used primarily, for transferring data from peripheral networks (e.g. SCSI) to client networks (e.g. ethernet). Increasing dataset sizes, new attachment technologies, the convergence of peripheral and interprocessor switch ...

9 [Distributed file systems: concepts and examples](#)

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available:  [pdf\(5.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and control ...

10 [Strategic directions in database systems—breaking out of the box](#)

Avi Silberschatz, Stan Zdonik

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4


Full text available:  [pdf\(222.64 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 [An object-based infrastructure for program monitoring and steering](#)

Greg Eisenhauer, Karsten Schwan

August 1998 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**


Full text available:  [pdf\(1.59 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

12 [Object orientation in multidatabase systems](#)

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Full text available:  [pdf\(4.85 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

13 Database systems—breaking out of the box

Avi Silberschatz, Stan Zdonik

September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)



14 Extending case-based reasoning by discovering and using image features in IVF

Igor Jurisica, Janice Glasgow

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available:  pdf(862.40 KB) Additional Information: [full citation](#), [references](#), [index terms](#)



Keywords: case-based and image-based reasoning, image-feature extraction, in-vitro fertilization (IVF), knowledge discovery

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Jack Donegan

December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**

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Shuichi Iwata

December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**

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Richard M. Hodur

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John Schill

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19 Thriving on information anxiety: a survival guide to the knowledge-value revolution

Sam A. Falk Milosevich

December 1995



Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)Full text available:  [html\(43.86 KB\)](#) Additional Information: [full citation](#), [index terms](#)**20 Network places: concepts, experiences, and Plans**

Pavel Curtis

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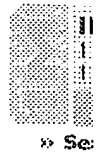
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